Claims

1 1. A method of providing a voltage from a DC-DC converter such that the voltage

2 provided varies dependent on the current drawn from the DC-DC converter,

3 comprising:

sensing a current drawn from the DC-DC converter; and

adjusting the voltage provided from the DC-DC converter such that the voltage

6 is at a maximum current voltage level when the current drawn is at a maximum load

7 current level and the voltage is at a minimum current voltage level when the current

8 drawn is at a minimum load current level.

1 2. The method of claim 1, further comprising adjusting the voltage provided from the

2 DC-DC converter to provide a substantially linear voltage response with respect to

3 current drawn between the maximum load current level and the minimum load current

4 level.

1 3. The method of claim 1, further comprising adjusting the voltage provided from the

2 DC-DC converter such that the voltage is at the minimum current voltage level when

3 the current drawn is below the minimum load current level.

1 4. The method of claim 1, wherein the minimum load current level is the minimum

2 current drawn by a known load device having a minimum current draw of greater than

3 no current.

1 5. The method of claim 1, wherein the minimum load current level is a selected

2 current level between but not including no current and the maximum load current

3 level.

- 1 6. The method of claim 1, wherein sensing a current drawn from the DC-DC
- 2 converter comprises sensing the voltage across a current sensing resistor connected in
- 3 series with an output of the DC-DC converter.
- 1 7. A method of providing a voltage from a DC-DC converter such that the voltage provided varies dependent on the current drawn from the DC-DC converter, comprising:

sensing an output current drawn from the DC-DC converter;

converting the sensed output current to a voltage signal indicating the sensed output current;

adjusting the voltage signal indicating the sensed output current such that the

8 voltage is at a minimum level when the current drawn is at a maximum load current

9 level and the trage is at a maximum level when the current drawn is at a minimum

10 load current level; and

adding the adjusted voltage signal to the voltage provided by the DC-DC

12 converter.

- 1 8. A method of providing a voltage from a DC-DC converter such that the voltage
- 2 provided varies dependent on the current drawn from the DC-DC converter,
- 3 comprising:
- 4 sensing an output current drawn from the DC-DC converter;
- 5 converting the sensed output current to a voltage signal indicating the sensed
- 6 output current;
- adjusting the voltage signal indicating the sensed output current such that the
- 8 voltage is at a maximum level when the current drawn is at a maximum load current
- 9 level and the voltage is at a minimum level when the current drawn is at a minimum
- 10 load current level; and
- subtracting the adjusted voltage signal from the voltage provided by the DC-
- 12 DC converter.



- a module operable to sense a current drawn from the DC-DC converter and
- 3 further operable to adjust the voltage provided from the DC-DC converter such that
- 4 the voltage is at a maximum current voltage level when the current drawn is at a
- 5 maximum load/current level and the voltage is at a minimum current voltage level
- 6 when the current drawn is at a minimum load current level.
- 1 10. The DC-DC converter of claim 9, wherein adjusting the voltage in response to the
- 2 sensed current is performed via hardware.
- 1 11. The DC-DC converter of claim 9, wherein adjusting the voltage in response to the
- 2 sensed current is performed via software executing on a processor.
- 1 12. The DC-DC converter of claim 9, wherein sensing a current drawn from the DC-
- 2 DC converter comprises measuring the voltage across a current sensing resistor
 - 3 connected in series with an output of the DC-DC converter.
 - 1 13. The DC-DC converter of claim 9, wherein the module is further operable to
 - 2 provide a substantially linear voltage response with respect to current drawn between
 - 3 the maximum load current level and the minimum load current level.
 - 1 14. The DC-DC converter of claim 9, wherein the module is further operable to
 - 2 provide a voltage at the minimum current voltage level when the current drawn is
 - 3 below the minimum load current level.
 - 1 15. The DC-DC converter of claim 9, wherein the minimum load current level is the
 - 2 minimum current drawn by a known load device having a minimum current draw of
 - 3 greater than no current.

- 1 16. The DC-DC converter of claim 9, wherein the minimum load current level is a
- 2 selected current level between but not including no current and the maximum load
- 3 current level.